



17607 U.S. PTO

PTO/SB/05 (08-03)

Approved for use through 07/31/2006. OMB 0651-0032
U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 C.F.R. 1.53(b))

Attorney Docket No.	03-260
First Inventor	Piterski
Title	EFFICIENT HEAT EXCHANGER AND ENGINE USING SAME
Express Mail Label No.	EL 995369597 US

22360 U.S. PTO
10/813282



APPLICATION ELEMENTS		ADDRESS TO:	
See MPEP chapter 600 concerning utility patent application contents.		Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria VA 22313-1450	
<p>1. <input checked="" type="checkbox"/> Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original and a duplicate for fee processing)</p> <p>2. <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27.</p> <p>3. <input checked="" type="checkbox"/> Specification [Total Pages 12] (preferred arrangement set forth below)</p> <ul style="list-style-type: none">- Descriptive title of the invention- Cross Reference to Related Applications- Statement Regarding Fed sponsored R & D- Reference to sequence listing, a table, or a computer program listing appendix- Background of the invention- Brief Summary of the invention- Brief Description of the Drawings (if filed)- Detailed Description- Claim(s)- Abstract of the Disclosure <p>4. <input checked="" type="checkbox"/> Drawing(s) (35 U.S.C. 113) [Total Sheets 4]</p> <p>5. Oath or Declaration [Total Sheets 8]</p> <p>a. <input checked="" type="checkbox"/> Newly executed (original or copy)</p> <p>b. <input type="checkbox"/> Copy from a prior application (37 CFR 1.63 (d)) (for a continuation/divisional with Box 18 completed)</p> <p>i. <input type="checkbox"/> DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).</p> <p>6. <input type="checkbox"/> Application Data Sheet. See 37 CFR 1.76</p>		<p>7. <input type="checkbox"/> CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)</p> <p>8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)</p> <p>a. <input type="checkbox"/> Computer Readable Form (CRF)</p> <p>b. Specification Sequence Listing on:</p> <p>i. <input type="checkbox"/> CD-ROM or CD-R (2 copies); or</p> <p>ii. <input type="checkbox"/> Paper</p> <p>c. <input type="checkbox"/> Statements verifying identity of above copies</p>	
		ACCOMPANYING APPLICATIONS PARTS	
		<p>9. <input checked="" type="checkbox"/> Assignment Papers (cover sheet & document(s))</p> <p>10. <input type="checkbox"/> 37 C.F.R. 3.73(b) Statement <input checked="" type="checkbox"/> Power of Attorney (when there is an assignee)</p> <p>11. <input type="checkbox"/> English Translation Document (if applicable)</p> <p>12. <input type="checkbox"/> Information Disclosure Statement (IDS)/PTO-1449 <input type="checkbox"/> Copies of IDS Citations</p> <p>13. <input type="checkbox"/> Preliminary Amendment</p> <p>14. <input checked="" type="checkbox"/> Return Receipt Postcard (MPEP 503) (Should be specifically itemized)</p> <p>15. <input type="checkbox"/> Certified Copy of Priority Document(s) (if foreign priority is claimed)</p> <p>16. <input type="checkbox"/> Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.</p> <p>17. <input type="checkbox"/> Other:</p>	
<p>18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:</p> <p><input type="checkbox"/> Continuation <input type="checkbox"/> Divisional <input type="checkbox"/> Continuation-in-part (CIP) of prior application No: _____ /</p> <p>Prior application information: Examiner _____ Art Unit: _____</p> <p>For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.</p>			
19. CORRESPONDENCE ADDRESS			
<input type="checkbox"/> Customer Number		OR <input checked="" type="checkbox"/> Correspondence address below	
Name	Michael B. McNeil		
Address	Liel & McNeil Attorneys PC		
	P.O. Box 2417		
City	Bloomington	State	IN
Country	USA	Telephone	812-333-5355
		Fax	812-333-3173
Name (Print/Type)	Michael B. McNeil	Registration No. (Attorney/Agent)	35,949
Signature			Date
			3/30/04

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

033004

17607 U.S. PTO

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**FEE TRANSMITTAL
for FY 2004**

Effective 10/01/2003. Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27**TOTAL AMOUNT OF PAYMENT** (\$) 810.00**Complete if Known**

Application Number	
Filing Date	
First Named Inventor	Piterski
Examiner Name	
Art Unit	
Attorney Docket No.	03-260

METHOD OF PAYMENT (check all that apply)				FEE CALCULATION (continued)																																																																																																																																																																																																																																																																																																																																																																																																															
<input checked="" type="checkbox"/> Check <input type="checkbox"/> Credit card <input type="checkbox"/> Money Order <input type="checkbox"/> Other <input type="checkbox"/> None				3. ADDITIONAL FEES																																																																																																																																																																																																																																																																																																																																																																																																															
<input checked="" type="checkbox"/> Deposit Account: Deposit Account Number: 500226 Deposit Account Name:				<table border="1"><thead><tr><th>Large Entity</th><th>Small Entity</th><th>Fee Code</th><th>Fee (\$)</th><th>Fee Code</th><th>Fee (\$)</th><th>Fee Description</th><th>Fee Paid</th></tr></thead><tbody><tr><td></td><td></td><td>1051</td><td>130</td><td>2051</td><td>65</td><td>Surcharge - late filing fee or oath</td><td></td></tr><tr><td></td><td></td><td>1052</td><td>50</td><td>2052</td><td>25</td><td>Surcharge - late provisional filing fee or cover sheet</td><td></td></tr><tr><td></td><td></td><td>1053</td><td>130</td><td>1053</td><td>130</td><td>Non-English specification</td><td></td></tr><tr><td></td><td></td><td>1812</td><td>2,520</td><td>1812</td><td>2,520</td><td>For filing a request for reexamination</td><td></td></tr><tr><td></td><td></td><td>1804</td><td>920*</td><td>1804</td><td>920*</td><td>Requesting publication of SIR prior to Examiner action</td><td></td></tr><tr><td></td><td></td><td>1805</td><td>1,840*</td><td>1805</td><td>1,840*</td><td>Requesting publication of SIR after Examiner action</td><td></td></tr><tr><td></td><td></td><td>1251</td><td>110</td><td>2251</td><td>55</td><td>Extension for reply within first month</td><td></td></tr><tr><td></td><td></td><td>1252</td><td>420</td><td>2252</td><td>210</td><td>Extension for reply within second month</td><td></td></tr><tr><td></td><td></td><td>1253</td><td>950</td><td>2253</td><td>475</td><td>Extension for reply within third month</td><td></td></tr><tr><td></td><td></td><td>1254</td><td>1,480</td><td>2254</td><td>740</td><td>Extension for reply within fourth month</td><td></td></tr><tr><td></td><td></td><td>1255</td><td>2,010</td><td>2255</td><td>1,005</td><td>Extension for reply within fifth month</td><td></td></tr><tr><td></td><td></td><td>1401</td><td>330</td><td>2401</td><td>165</td><td>Notice of Appeal</td><td></td></tr><tr><td></td><td></td><td>1402</td><td>330</td><td>2402</td><td>165</td><td>Filing a brief in support of an appeal</td><td></td></tr><tr><td></td><td></td><td>1403</td><td>290</td><td>2403</td><td>145</td><td>Request for oral hearing</td><td></td></tr><tr><td></td><td></td><td>1451</td><td>1,510</td><td>1451</td><td>1,510</td><td>Petition to institute a public use proceeding</td><td></td></tr><tr><td></td><td></td><td>1452</td><td>110</td><td>2452</td><td>55</td><td>Petition to revive - unavoidable</td><td></td></tr><tr><td></td><td></td><td>1453</td><td>1,330</td><td>2453</td><td>665</td><td>Petition to revive - unintentional</td><td></td></tr><tr><td></td><td></td><td>1501</td><td>1,330</td><td>2501</td><td>665</td><td>Utility issue fee (or reissue)</td><td></td></tr><tr><td></td><td></td><td>1502</td><td>480</td><td>2502</td><td>240</td><td>Design issue fee</td><td></td></tr><tr><td></td><td></td><td>1503</td><td>640</td><td>2503</td><td>320</td><td>Plant issue fee</td><td></td></tr><tr><td></td><td></td><td>1460</td><td>130</td><td>1460</td><td>130</td><td>Petitions to the Commissioner</td><td></td></tr><tr><td></td><td></td><td>1807</td><td>50</td><td>1807</td><td>50</td><td>Processing fee under 37 CFR 1.17 (q)</td><td></td></tr><tr><td></td><td></td><td>1806</td><td>180</td><td>1806</td><td>180</td><td>Submission of Information Disclosure Stmt</td><td></td></tr><tr><td></td><td></td><td>8021</td><td>40</td><td>8021</td><td>40</td><td>Recording each patent assignment per property (times number of properties)</td><td>40</td></tr><tr><td></td><td></td><td>1809</td><td>770</td><td>2809</td><td>385</td><td>Filing a submission after final rejection (37 CFR § 1.129(a))</td><td></td></tr><tr><td></td><td></td><td>1810</td><td>770</td><td>2810</td><td>385</td><td>For each additional invention to be examined (37 CFR § 1.129(b))</td><td></td></tr><tr><td></td><td></td><td>1801</td><td>770</td><td>2801</td><td>385</td><td>Request for Continued Examination (RCE)</td><td></td></tr><tr><td></td><td></td><td>1802</td><td>900</td><td>1802</td><td>900</td><td>Request for expedited examination of a design application</td><td></td></tr><tr><td></td><td></td><td colspan="6">Other fee (specify)</td></tr><tr><td colspan="4">1. BASIC FILING FEE</td><td colspan="4">2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE</td></tr><tr><td colspan="4"><table border="1"><thead><tr><th>Large Entity</th><th>Small Entity</th><th>Fee Code</th><th>Fee (\$)</th><th>Fee Code</th><th>Fee (\$)</th><th>Fee Description</th><th>Fee Paid</th></tr></thead><tbody><tr><td>1001</td><td>770</td><td>2001</td><td>385</td><td></td><td></td><td>Utility filing fee</td><td>770</td></tr><tr><td>1002</td><td>340</td><td>2002</td><td>170</td><td></td><td></td><td>Design filing fee</td><td></td></tr><tr><td>1003</td><td>530</td><td>2003</td><td>265</td><td></td><td></td><td>Plant filing fee</td><td></td></tr><tr><td>1004</td><td>770</td><td>2004</td><td>385</td><td></td><td></td><td>Reissue filing fee</td><td></td></tr><tr><td>1005</td><td>160</td><td>2005</td><td>80</td><td></td><td></td><td>Provisional filing fee</td><td></td></tr><tr><td colspan="7">SUBTOTAL (1)</td><td>(\$ 770)</td></tr></tbody></table></td><td colspan="4"><table border="1"><thead><tr><th>Total Claims</th><th>Extra Claims</th><th>Fee from below</th><th>Fee Paid</th></tr></thead><tbody><tr><td>20</td><td>-20 **</td><td>0</td><td>0</td></tr><tr><td>3</td><td>-3 **</td><td>0</td><td>0</td></tr><tr><td colspan="3"></td><td>0</td></tr></tbody></table></td></tr><tr><td colspan="4"><table border="1"><thead><tr><th>Large Entity</th><th>Small Entity</th><th>Fee Code</th><th>Fee (\$)</th><th>Fee Code</th><th>Fee (\$)</th><th>Fee Description</th><th>Fee Paid</th></tr></thead><tbody><tr><td>1202</td><td>18</td><td>2202</td><td>9</td><td></td><td></td><td>Claims in excess of 20</td><td></td></tr><tr><td>1201</td><td>86</td><td>2201</td><td>43</td><td></td><td></td><td>Independent claims in excess of 3</td><td></td></tr><tr><td>1203</td><td>290</td><td>2203</td><td>145</td><td></td><td></td><td>Multiple dependent claim, if not paid</td><td></td></tr><tr><td>1204</td><td>86</td><td>2204</td><td>43</td><td></td><td></td><td>** Reissue independent claims over original patent</td><td></td></tr><tr><td>1205</td><td>18</td><td>2205</td><td>9</td><td></td><td></td><td>** Reissue claims in excess of 20 and over original patent</td><td></td></tr><tr><td colspan="7">SUBTOTAL (2)</td><td>(\$ 0)</td></tr></tbody></table></td><td colspan="4"><table border="1"><thead><tr><th colspan="2">SUBTOTAL (3)</th></tr></thead><tbody><tr><td colspan="2">(\$ 40)</td></tr></tbody></table></td></tr></tbody></table>				Large Entity	Small Entity	Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid			1051	130	2051	65	Surcharge - late filing fee or oath				1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet				1053	130	1053	130	Non-English specification				1812	2,520	1812	2,520	For filing a request for reexamination				1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action				1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action				1251	110	2251	55	Extension for reply within first month				1252	420	2252	210	Extension for reply within second month				1253	950	2253	475	Extension for reply within third month				1254	1,480	2254	740	Extension for reply within fourth month				1255	2,010	2255	1,005	Extension for reply within fifth month				1401	330	2401	165	Notice of Appeal				1402	330	2402	165	Filing a brief in support of an appeal				1403	290	2403	145	Request for oral hearing				1451	1,510	1451	1,510	Petition to institute a public use proceeding				1452	110	2452	55	Petition to revive - unavoidable				1453	1,330	2453	665	Petition to revive - unintentional				1501	1,330	2501	665	Utility issue fee (or reissue)				1502	480	2502	240	Design issue fee				1503	640	2503	320	Plant issue fee				1460	130	1460	130	Petitions to the Commissioner				1807	50	1807	50	Processing fee under 37 CFR 1.17 (q)				1806	180	1806	180	Submission of Information Disclosure Stmt				8021	40	8021	40	Recording each patent assignment per property (times number of properties)	40			1809	770	2809	385	Filing a submission after final rejection (37 CFR § 1.129(a))				1810	770	2810	385	For each additional invention to be examined (37 CFR § 1.129(b))				1801	770	2801	385	Request for Continued Examination (RCE)				1802	900	1802	900	Request for expedited examination of a design application				Other fee (specify)						1. BASIC FILING FEE				2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE				<table border="1"><thead><tr><th>Large Entity</th><th>Small Entity</th><th>Fee Code</th><th>Fee (\$)</th><th>Fee Code</th><th>Fee (\$)</th><th>Fee Description</th><th>Fee Paid</th></tr></thead><tbody><tr><td>1001</td><td>770</td><td>2001</td><td>385</td><td></td><td></td><td>Utility filing fee</td><td>770</td></tr><tr><td>1002</td><td>340</td><td>2002</td><td>170</td><td></td><td></td><td>Design filing fee</td><td></td></tr><tr><td>1003</td><td>530</td><td>2003</td><td>265</td><td></td><td></td><td>Plant filing fee</td><td></td></tr><tr><td>1004</td><td>770</td><td>2004</td><td>385</td><td></td><td></td><td>Reissue filing fee</td><td></td></tr><tr><td>1005</td><td>160</td><td>2005</td><td>80</td><td></td><td></td><td>Provisional filing fee</td><td></td></tr><tr><td colspan="7">SUBTOTAL (1)</td><td>(\$ 770)</td></tr></tbody></table>				Large Entity	Small Entity	Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid	1001	770	2001	385			Utility filing fee	770	1002	340	2002	170			Design filing fee		1003	530	2003	265			Plant filing fee		1004	770	2004	385			Reissue filing fee		1005	160	2005	80			Provisional filing fee		SUBTOTAL (1)							(\$ 770)	<table border="1"><thead><tr><th>Total Claims</th><th>Extra Claims</th><th>Fee from below</th><th>Fee Paid</th></tr></thead><tbody><tr><td>20</td><td>-20 **</td><td>0</td><td>0</td></tr><tr><td>3</td><td>-3 **</td><td>0</td><td>0</td></tr><tr><td colspan="3"></td><td>0</td></tr></tbody></table>				Total Claims	Extra Claims	Fee from below	Fee Paid	20	-20 **	0	0	3	-3 **	0	0				0	<table border="1"><thead><tr><th>Large Entity</th><th>Small Entity</th><th>Fee Code</th><th>Fee (\$)</th><th>Fee Code</th><th>Fee (\$)</th><th>Fee Description</th><th>Fee Paid</th></tr></thead><tbody><tr><td>1202</td><td>18</td><td>2202</td><td>9</td><td></td><td></td><td>Claims in excess of 20</td><td></td></tr><tr><td>1201</td><td>86</td><td>2201</td><td>43</td><td></td><td></td><td>Independent claims in excess of 3</td><td></td></tr><tr><td>1203</td><td>290</td><td>2203</td><td>145</td><td></td><td></td><td>Multiple dependent claim, if not paid</td><td></td></tr><tr><td>1204</td><td>86</td><td>2204</td><td>43</td><td></td><td></td><td>** Reissue independent claims over original patent</td><td></td></tr><tr><td>1205</td><td>18</td><td>2205</td><td>9</td><td></td><td></td><td>** Reissue claims in excess of 20 and over original patent</td><td></td></tr><tr><td colspan="7">SUBTOTAL (2)</td><td>(\$ 0)</td></tr></tbody></table>				Large Entity	Small Entity	Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid	1202	18	2202	9			Claims in excess of 20		1201	86	2201	43			Independent claims in excess of 3		1203	290	2203	145			Multiple dependent claim, if not paid		1204	86	2204	43			** Reissue independent claims over original patent		1205	18	2205	9			** Reissue claims in excess of 20 and over original patent		SUBTOTAL (2)							(\$ 0)	<table border="1"><thead><tr><th colspan="2">SUBTOTAL (3)</th></tr></thead><tbody><tr><td colspan="2">(\$ 40)</td></tr></tbody></table>				SUBTOTAL (3)		(\$ 40)	
Large Entity	Small Entity	Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid																																																																																																																																																																																																																																																																																																																																																																																																												
		1051	130	2051	65	Surcharge - late filing fee or oath																																																																																																																																																																																																																																																																																																																																																																																																													
		1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet																																																																																																																																																																																																																																																																																																																																																																																																													
		1053	130	1053	130	Non-English specification																																																																																																																																																																																																																																																																																																																																																																																																													
		1812	2,520	1812	2,520	For filing a request for reexamination																																																																																																																																																																																																																																																																																																																																																																																																													
		1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action																																																																																																																																																																																																																																																																																																																																																																																																													
		1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action																																																																																																																																																																																																																																																																																																																																																																																																													
		1251	110	2251	55	Extension for reply within first month																																																																																																																																																																																																																																																																																																																																																																																																													
		1252	420	2252	210	Extension for reply within second month																																																																																																																																																																																																																																																																																																																																																																																																													
		1253	950	2253	475	Extension for reply within third month																																																																																																																																																																																																																																																																																																																																																																																																													
		1254	1,480	2254	740	Extension for reply within fourth month																																																																																																																																																																																																																																																																																																																																																																																																													
		1255	2,010	2255	1,005	Extension for reply within fifth month																																																																																																																																																																																																																																																																																																																																																																																																													
		1401	330	2401	165	Notice of Appeal																																																																																																																																																																																																																																																																																																																																																																																																													
		1402	330	2402	165	Filing a brief in support of an appeal																																																																																																																																																																																																																																																																																																																																																																																																													
		1403	290	2403	145	Request for oral hearing																																																																																																																																																																																																																																																																																																																																																																																																													
		1451	1,510	1451	1,510	Petition to institute a public use proceeding																																																																																																																																																																																																																																																																																																																																																																																																													
		1452	110	2452	55	Petition to revive - unavoidable																																																																																																																																																																																																																																																																																																																																																																																																													
		1453	1,330	2453	665	Petition to revive - unintentional																																																																																																																																																																																																																																																																																																																																																																																																													
		1501	1,330	2501	665	Utility issue fee (or reissue)																																																																																																																																																																																																																																																																																																																																																																																																													
		1502	480	2502	240	Design issue fee																																																																																																																																																																																																																																																																																																																																																																																																													
		1503	640	2503	320	Plant issue fee																																																																																																																																																																																																																																																																																																																																																																																																													
		1460	130	1460	130	Petitions to the Commissioner																																																																																																																																																																																																																																																																																																																																																																																																													
		1807	50	1807	50	Processing fee under 37 CFR 1.17 (q)																																																																																																																																																																																																																																																																																																																																																																																																													
		1806	180	1806	180	Submission of Information Disclosure Stmt																																																																																																																																																																																																																																																																																																																																																																																																													
		8021	40	8021	40	Recording each patent assignment per property (times number of properties)	40																																																																																																																																																																																																																																																																																																																																																																																																												
		1809	770	2809	385	Filing a submission after final rejection (37 CFR § 1.129(a))																																																																																																																																																																																																																																																																																																																																																																																																													
		1810	770	2810	385	For each additional invention to be examined (37 CFR § 1.129(b))																																																																																																																																																																																																																																																																																																																																																																																																													
		1801	770	2801	385	Request for Continued Examination (RCE)																																																																																																																																																																																																																																																																																																																																																																																																													
		1802	900	1802	900	Request for expedited examination of a design application																																																																																																																																																																																																																																																																																																																																																																																																													
		Other fee (specify)																																																																																																																																																																																																																																																																																																																																																																																																																	
1. BASIC FILING FEE				2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE																																																																																																																																																																																																																																																																																																																																																																																																															
<table border="1"><thead><tr><th>Large Entity</th><th>Small Entity</th><th>Fee Code</th><th>Fee (\$)</th><th>Fee Code</th><th>Fee (\$)</th><th>Fee Description</th><th>Fee Paid</th></tr></thead><tbody><tr><td>1001</td><td>770</td><td>2001</td><td>385</td><td></td><td></td><td>Utility filing fee</td><td>770</td></tr><tr><td>1002</td><td>340</td><td>2002</td><td>170</td><td></td><td></td><td>Design filing fee</td><td></td></tr><tr><td>1003</td><td>530</td><td>2003</td><td>265</td><td></td><td></td><td>Plant filing fee</td><td></td></tr><tr><td>1004</td><td>770</td><td>2004</td><td>385</td><td></td><td></td><td>Reissue filing fee</td><td></td></tr><tr><td>1005</td><td>160</td><td>2005</td><td>80</td><td></td><td></td><td>Provisional filing fee</td><td></td></tr><tr><td colspan="7">SUBTOTAL (1)</td><td>(\$ 770)</td></tr></tbody></table>				Large Entity	Small Entity	Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid	1001	770	2001	385			Utility filing fee	770	1002	340	2002	170			Design filing fee		1003	530	2003	265			Plant filing fee		1004	770	2004	385			Reissue filing fee		1005	160	2005	80			Provisional filing fee		SUBTOTAL (1)							(\$ 770)	<table border="1"><thead><tr><th>Total Claims</th><th>Extra Claims</th><th>Fee from below</th><th>Fee Paid</th></tr></thead><tbody><tr><td>20</td><td>-20 **</td><td>0</td><td>0</td></tr><tr><td>3</td><td>-3 **</td><td>0</td><td>0</td></tr><tr><td colspan="3"></td><td>0</td></tr></tbody></table>				Total Claims	Extra Claims	Fee from below	Fee Paid	20	-20 **	0	0	3	-3 **	0	0				0																																																																																																																																																																																																																																																																																																																																				
Large Entity	Small Entity	Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid																																																																																																																																																																																																																																																																																																																																																																																																												
1001	770	2001	385			Utility filing fee	770																																																																																																																																																																																																																																																																																																																																																																																																												
1002	340	2002	170			Design filing fee																																																																																																																																																																																																																																																																																																																																																																																																													
1003	530	2003	265			Plant filing fee																																																																																																																																																																																																																																																																																																																																																																																																													
1004	770	2004	385			Reissue filing fee																																																																																																																																																																																																																																																																																																																																																																																																													
1005	160	2005	80			Provisional filing fee																																																																																																																																																																																																																																																																																																																																																																																																													
SUBTOTAL (1)							(\$ 770)																																																																																																																																																																																																																																																																																																																																																																																																												
Total Claims	Extra Claims	Fee from below	Fee Paid																																																																																																																																																																																																																																																																																																																																																																																																																
20	-20 **	0	0																																																																																																																																																																																																																																																																																																																																																																																																																
3	-3 **	0	0																																																																																																																																																																																																																																																																																																																																																																																																																
			0																																																																																																																																																																																																																																																																																																																																																																																																																
<table border="1"><thead><tr><th>Large Entity</th><th>Small Entity</th><th>Fee Code</th><th>Fee (\$)</th><th>Fee Code</th><th>Fee (\$)</th><th>Fee Description</th><th>Fee Paid</th></tr></thead><tbody><tr><td>1202</td><td>18</td><td>2202</td><td>9</td><td></td><td></td><td>Claims in excess of 20</td><td></td></tr><tr><td>1201</td><td>86</td><td>2201</td><td>43</td><td></td><td></td><td>Independent claims in excess of 3</td><td></td></tr><tr><td>1203</td><td>290</td><td>2203</td><td>145</td><td></td><td></td><td>Multiple dependent claim, if not paid</td><td></td></tr><tr><td>1204</td><td>86</td><td>2204</td><td>43</td><td></td><td></td><td>** Reissue independent claims over original patent</td><td></td></tr><tr><td>1205</td><td>18</td><td>2205</td><td>9</td><td></td><td></td><td>** Reissue claims in excess of 20 and over original patent</td><td></td></tr><tr><td colspan="7">SUBTOTAL (2)</td><td>(\$ 0)</td></tr></tbody></table>				Large Entity	Small Entity	Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid	1202	18	2202	9			Claims in excess of 20		1201	86	2201	43			Independent claims in excess of 3		1203	290	2203	145			Multiple dependent claim, if not paid		1204	86	2204	43			** Reissue independent claims over original patent		1205	18	2205	9			** Reissue claims in excess of 20 and over original patent		SUBTOTAL (2)							(\$ 0)	<table border="1"><thead><tr><th colspan="2">SUBTOTAL (3)</th></tr></thead><tbody><tr><td colspan="2">(\$ 40)</td></tr></tbody></table>				SUBTOTAL (3)		(\$ 40)																																																																																																																																																																																																																																																																																																																																																	
Large Entity	Small Entity	Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid																																																																																																																																																																																																																																																																																																																																																																																																												
1202	18	2202	9			Claims in excess of 20																																																																																																																																																																																																																																																																																																																																																																																																													
1201	86	2201	43			Independent claims in excess of 3																																																																																																																																																																																																																																																																																																																																																																																																													
1203	290	2203	145			Multiple dependent claim, if not paid																																																																																																																																																																																																																																																																																																																																																																																																													
1204	86	2204	43			** Reissue independent claims over original patent																																																																																																																																																																																																																																																																																																																																																																																																													
1205	18	2205	9			** Reissue claims in excess of 20 and over original patent																																																																																																																																																																																																																																																																																																																																																																																																													
SUBTOTAL (2)							(\$ 0)																																																																																																																																																																																																																																																																																																																																																																																																												
SUBTOTAL (3)																																																																																																																																																																																																																																																																																																																																																																																																																			
(\$ 40)																																																																																																																																																																																																																																																																																																																																																																																																																			

**or number previously paid, if greater; For Reissues, see above

SUBMITTED BY			Complete (if applicable)		
Name (Print/Type)	Michael B. McNeil	Registration No. (Attorney/Agent)	35,949	Telephone	812-333-5355
Signature			Date	03/30/04	

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing this form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.